

Title (en)
SEALING ARRANGEMENT IN A COMPRESSOR

Title (de)
DICHTUNGSANORDNUNG IN EINEM VERDICHTER

Title (fr)
SYSTEME D'ETANCHEIFICATION DANS UN COMPRESSEUR

Publication
EP 1685310 B1 20081105 (EN)

Application
EP 04783611 A 20040909

Priority
• US 2004029430 W 20040909
• US 66185003 A 20030912

Abstract (en)
[origin: US2005058533A1] A sealing arrangement for a compressor that compresses a gaseous mixture of air and fuel includes a pressurized air supply duct for supplying pressurized air into a leakage pathway defined between a compressor wheel and a housing of the compressor, which leakage pathway leads from the main gas flow path into a bearing area of the compressor, the pressurized air being supplied at a pressure sufficient to ensure that air and gaseous fuel cannot flow from the main gas flow path through the leakage pathway into the bearing area. A portion of the pressurized air flows into the bearing area, while the remainder of the air flows outwardly and is either fed back into the main gas flow path or is combined with air and gaseous fuel that leaks past an outer seal and is recirculated back to the compressor inlet.

IPC 8 full level
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F01D 3/04 (2013.01 - EP US); **F01D 11/02** (2013.01 - EP KR US); **F01D 11/04** (2013.01 - EP KR US); **F02C 7/28** (2013.01 - EP US); **F04D 29/08** (2013.01 - KR); **F04D 29/124** (2013.01 - EP US); **F04D 29/16** (2013.01 - KR); **F04D 29/162** (2013.01 - EP US); **F04D 29/5846** (2013.01 - EP US)

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DOCDB simple family (publication)
US 2005058533 A1 20050317; US 7252474 B2 20070807; AT E413515 T1 20081115; CA 2538749 A1 20050331; CN 1878931 A 20061213; DE 602004017636 D1 20081218; DK 1685310 T3 20090302; EP 1685310 A1 20060802; EP 1685310 B1 20081105; ES 2317051 T3 20090416; JP 2007533888 A 20071122; JP 4463275 B2 20100519; KR 20060118432 A 20061123; MX PA06002860 A 20060614; RU 2006112002 A 20071020; WO 2005028813 A1 20050331

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